

AM3 / AM1 Flash On-Board Programmer

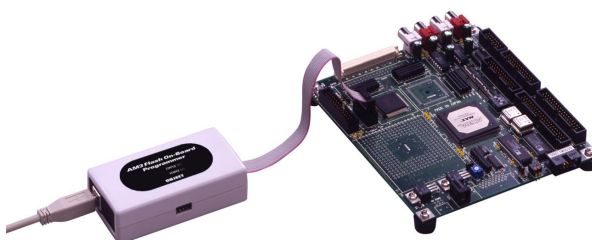
Support AM3/AM1 Flash Microcontroller On-Board Program

Flash ROM programming is possible with a state implemented to a product.

Loader program is not required.

This provides high security by having key code edit function to prevent incorrect reading,.

Programmer matching evaluation for liability of writing is completed. Thus, this is available for not only development and also production or support.



AM3 / AM1 Flash On-Board Programmer



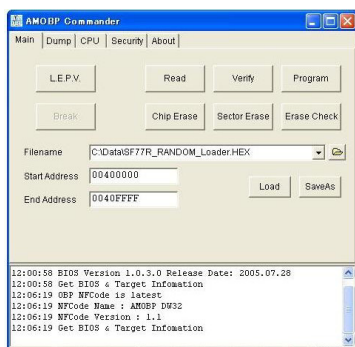
AM3 Flash On-Board Programmer



AM1 Flash On-Board Programmer

- This On-Board Programmer supports AM3 / AM1 flash microcontroller with DWire communication function. There are 2 models; AM3 and AM1.
- Attached control software is AMOBP Commander.
- Supports one model of AM microcontroller. If you want more supported models, please purchase an additional product package software (Writing algorithm).
- This connects to target system with 5x2pins. Connector is compatible with **Panasonic** flash programmer(PX-FW2) and OBJECT's **AM1 Debug Probe**.
- Weight is 100g. Palm-size and light weight. No need for power supply because of USB connection to Host PC.

AMOBP Commander



- Control software of AM3 / AM1 Flash On-Board Programmer
- GUI common to AM microcontroller and model-dependent writing part are separated. This supports each AM microcontroller by registering product package software (Read algorithm).
- Package software is released by each AM microcontroller supported by AM3 / AM1 Flash On-Board Programmer.
- Supports file format of Matsushita original EX format and EF format, Intel HEX format, Motorola S format. Security key code generation / edit are possible.

Notifications

- Information about new models will be available on our website.
- Specifications and product performance may be changed without prior notification.
- Company and product names are the trademarks or registered trademarks of their respective companies.
- Please see our homepage <http://www.object.jp/> for more detailed product information.
- Please send inquiries via e-mail to info@object.co.jp
- Product under development are not guaranteed for sales.

OBJECT CO.,

AM3/AM1 Flash On-Board Programmer Product Specification		
Product name	AM3 Flash On-Board Programmer	AM1 Flash On-Board Programmer
Case sheet color	Black	Deep green
Supported CPU	MN103SF series with DWire32communication function	MN101CF / MN101EF series DWire8 communication function
Loader program	Not required	Not required
Target connector	2.54 pitch 5x2 pins Connection compatible with PX-FW2	2.54 pitch 5x2 pins Connection compatible with PX-FW2 and AM1 Debug Probe
Target connector signal	DWire32 communication port(RESET,CLOCK,DATA),VDD,GND	DWire8 communication port (RESET,CLOCK,DATA ,DMODE),VDD,GND
Support voltage of target system	Supports 3.3 to 5V	Supports 3.3 to 5V
Connection cable	10cm Flat cable with both edges 2.54 pitch, 5x2 pins connector	10cm Flat cable with both edges 2.54 pitch, 5x2 pins connector
Host I/F	USB 1.1	USB 1.1
Size/Weight	W96 x H28 X D50 (mm) / 100g	W96 X H28 X D50 (mm) / 100g
Product contents	■AM3 Flash On-Board Programmer : 1 ■CD-R including control software user's manual : 1 ■USB cable (1.8m) : 1 ■Target connect cable(10cm) : 1 ■Quick start guide : 1 ■User's registration guide / Production warranty : 1 (Attached one-model package license product cord)	■AM1 Flash On-Board Programmer : 1 ■CD-R including control software user's manual : 1 ■USB cable (1.8m) : 1 ■Target connect cable(10cm) : 1 ■Quick start guide : 1 ■User's registration guide / Production warranty : 1 (Attached One model package license product cord)

AMOBP Commander Product Specification	
Product name	AMOBP Commander
Overview	AM3 / AM1 Flash On-Board Programmer attached control software
Load file format	Matsushita original EX format and EF format, Intel HEX format, Motrola S format.
Save file format	Matsushita original EF format, Intel HEX format, Motrola S format.
Security function	Supports each microcontroller keycode. Key code file is compatible with PX-FW2.
On-board programming function	Generate/Edit write, read, erase, verify, protect, security code
Microcontroller model support format	Product package software is registered to AMOBP Commander
Supported OS	Windows98SE / 2000 / XP

AM3/AM1 Flash On-Board Programmer Price List			
These are prices of product supporting one model of AM microcontroller. Attached CD-R contains all supported models of package software at the point of its sale. You can use other model by purchasing a licensed product code. You can download latest model package software from our website. However, AM3 and AM1 are not compatible because their hardware units are different.			
Product name	Product type	Supported AM microcontroller	Licensed package software
AM3 Flash On-Board Programmer S73R	MOBP13-S73R	MN103SF73R	AMOBP_103SF73R
AM3 Flash On-Board Programmer S77R	MOBP13-S77R	MN103SF77R	AMOBP_103SF77R
AM3 Flash On-Board Programmer SA5K	MOBP13-SA5K	MN103SFA5K	AMOBP_103SFA5K
AM3 Flash On-Board Programmer SA7K	MOBP13-SA7K	MN103SFA7K	AMOBP_103SFA7K
AM1 Flash On-Board Programmer C73A	MOBP11-C73A	MN101CF73A	AMOBP_101CF73A
AM1 Flash On-Board Programmer C78A	MOBP11-C78A	MN101CF78A	AMOBP_101CF78A
AM1 Flash On-Board Programmer C91D	MOBP11-C91D	MN101CF91D	AMOBP_101CF91D
AM1 Flash On-Board Programmer C93K	MOBP11-C93K	MN101CF93K	AMOBP_101CF93K
AM1 Flash On-Board Programmer C95G	MOBP11-C95G	MN101CF95G	AMOBP_101CF95G
AM1 Flash On-Board Programmer C97D	MOBP11-C97D	MN101CF97D	AMOBP_101CF97D
AM1 Flash On-Board Programmer E16N	MOBP11-E16N	MN101EF16N	AMOBP_101EF16N
AM1 Flash On-Board Programmer E29G	MOBP11-E29G	MN101EF29G	AMOBP_101EF29G
AM1 Flash On-Board Programmer E30R	MOBP11-E30R	MN101EF30R	AMOBP_101EF30R

Product package software price list			
These are prices of product package software corresponding to AMOBP Commander writing part. These are license sale of a license product code for the register of product code. When buying procedure is finished, we will send you a license product code by mail or e-mail. The following licensed product package software is available on CD-ROM or our website.			
Product name	Product type	Supported AM microcontroller	Supported Programmer
AMOBP_103SF73R	MAMOBP13-S73R	MN103SF73R	AM3 Flash On-Board Programmer
AMOBP_103SF77R	MAMOBP13-S77R	MN103SF77R	AM3 Flash On-Board Programmer
AMOBP_103SFA5K	MAMOBP13-SA5K	MN103SFA5K	AM3 Flash On-Board Programmer
AMOBP_103SFA7K	MAMOBP13-SA7K	MN103SFA7K	AM3 Flash On-Board Programmer
AMOBP_101CF73A	MAMOBP11-C73A	MN101CF73A	AM1 Flash On-Board Programmer
AMOBP_101CF78A	MAMOBP11-C78A	MN101CF78A	AM1 Flash On-Board Programmer
AMOBP_101CF91D	MAMOBP11-C91D	MN101CF91D	AM1 Flash On-Board Programmer
AMOBP_101CF93K	MAMOBP11-C93K	MN101CF93K	AM1 Flash On-Board Programmer
AMOBP_101CF95G	MAMOBP11-C95G	MN101CF95G	AM1 Flash On-Board Programmer
AMOBP_101CF97D	MAMOBP11-C97D	MN101CF97D	AM1 Flash On-Board Programmer
AMOBP_101EF16N	MAMOBP11-E16N	MN101EF16N	AM1 Flash On-Board Programmer
AMOBP_101EF29G	MAMOBP11-E29G	MN101EF29G	AM1 Flash On-Board Programmer
AMOBP_101EF30R	MAMOBP11-E30R	MN101EF30R	AM1 Flash On-Board Programmer

Development/Sales

OBJECT Co., Ltd.
3rd Floor, Mori New Bldg. 1-3-1 Hotarugaike Higashimachi, Toyonaka
Osaka
TEL 06-6844-1747 **FAX 06-6844-1760**
URL <http://www.OBJECT.jp> **E-Mail: info@object.co.jp**

<Inquiry>